

120 York Street
Kennebunk, ME 04043
(207) 467-3478

NELSON ANALYTICAL LAB



ISO 17025:2017 Accreditation
ANAB Certificate Number: AT-2169
Maine CDC Accreditation MTF001
Office of Marijuana Policy MTF328

Report Date: 30 October 2020

The Maine Lab:
536 Riverside Street Portland ME , 04103:

Enclosed are the results of analytical testing performed on the following samples:

Laboratory ID	Sample Location	Date sampled	Date received
C20100432.01	Rooted Heart Remedies: CBG-1	28-Oct-20 00:00	29-Oct-20 08:00

The results in this report relate only to the submitted samples. If you have any questions concerning this report, please feel free to contact the laboratory at 207-467-3478.

Sincerely,

Lorri Maling
Laboratory Director



Weight Received(g)

REPORT OF ANALYSIS

Date sampled : 10/28/2020

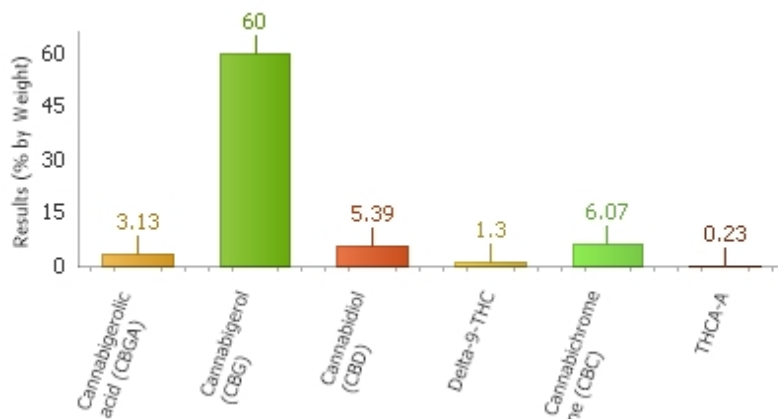
Temp Received:

The Maine Lab

Reported Date: 10/30/2020

C20100432.01

Rooted Heart Remedies: CBG-1(Concentrate)



Cannabinoids by HPLC

Analyte	Result	Reporting Limit	Units	Q	Analyzed	Method	Analyst	Pass/Fail Limit	Test Remarks
Cannabidiol (CBD)	ND	0.1	% by Weight		10/29/2020 18:00	HPLC SOP-7	NRS	N/A	
Cannabidiolic acid (CBDA)	ND	0.1	% by Weight		10/29/2020 18:00	HPLC SOP-7	NRS	N/A	
Cannabigeronic acid (CBGA)	3.13	0.1	% by Weight		10/29/2020 18:00	HPLC SOP-7	NRS	N/A	
Cannabigerol (CBG)	60.0	0.1	% by Weight		10/29/2020 18:00	HPLC SOP-7	NRS	N/A	
Cannabidiol (CBD)	5.39	0.1	% by Weight		10/29/2020 18:00	HPLC SOP-7	NRS	N/A	
Tetrahydrocannabinol (THCV)	ND	0.1	% by Weight		10/29/2020 18:00	HPLC SOP-7	NRS	N/A	
Cannabinol (CBN)	ND	0.1	% by Weight		10/29/2020 18:00	HPLC SOP-7	NRS	N/A	
Delta-9-THC	1.30	0.1	% by Weight		10/29/2020 18:00	HPLC SOP-7	NRS	N/A	
Delta-8-THC	ND	0.1	% by Weight		10/29/2020 18:00	HPLC SOP-7	NRS	N/A	
Cannabichromene (CBC)	6.07	0.1	% by Weight		10/29/2020 18:00	HPLC SOP-7	NRS	N/A	
THCA-A	0.230	0.1	% by Weight		10/29/2020 18:00	HPLC SOP-7	NRS	N/A	

Total Cannabinoids by HPLC (Calculated)

Analyte	Result	Reporting Limit	Units	Q	Analyzed	Method	Analyst	Pass/Fail Limit	Test Remarks
CBD+CBDA- Calculated	5.39	0.1	% by Weight		10/29/2020 18:00	HPLC SOP-7	NRS	N/A	
Total CBD-(Max CBD) Calculated	5.39	0.1	% by Weight		10/29/2020 18:00	HPLC SOP-7	NRS	N/A	
THC+THCA- Calculated	1.53	0.1	% by Weight		10/29/2020 18:00	HPLC SOP-7	NRS	N/A	
Total THC-(Max THC) Calculated	1.50	0.1	% by Weight		10/29/2020 18:00	HPLC SOP-7	NRS	N/A	
Total Cannabinoids- Calculated	76.1	0.1	% by Weight		10/29/2020 18:00	HPLC SOP-7	NRS	N/A	

Results as reported above relate only to samples as submitted, unless specifically noted otherwise.

Notes and Definitions

Note: All sample results are based on samples as they are received. Not all potential/existing hazards were tested. Unless otherwise noted below, analyses were performed without significant modifications and QC met the quality standards outlined in the methods reported. For purposes of reporting the terms marijuana and cannabis are used interchangeably. The Pass/Fail column on the report references Maine Adult Use acceptance limits. The State of Maine does not require Medical Marijuana or Hemp to meet these acceptance limits currently.

Results for the Maine Adult Use program are entered into the Metrc system. Due to reporting requirements some results are entered in Metrc as Zero. This is not scientifically accurate. Please refer to the final pdf report for the accurate reporting information.

Heat activation of cannabis products converts THCA to THC and CBDA to CBD in a time and temperature dependent manner. This conversion is known as decarboxylation and results from the loss of CO₂ during heating.

Total THC (Max THC) = Delta 8 THC + Delta 9 THC + (THCA x 0.877)

Total CBD (Max CBD) = CBD + (CBDA x 0.880)

Nelson Analytical is accredited for testing by ISO/IEC 17025:2017 and certified by ME CDC for the following parameters only:

Cannabinoids: Cannabinol (CBN), Cannabidiol (CBD)*, Cannabidiolic Acid (CBDA)*, Cannabigerol (CBG), Cannabigerolic Acid (CBGA), Cannabichromene (CBC), delta-9-THC*, delta-8-THC, THCA-A*, Tetrahydrocannabivarin (THCV), Cannabidivarin (CBDV) by High Pressure Liquid Chromatography (HPLC). Internal SOP-1/SOP-7 Analysis of Cannabinoids *NOTE: ME CDC certification for CBD, CBDA, Delta 9 THC and THCA-A, Total THC and Total CBD.

Homogeneity (Internal SOP-1/SOP-7 Analysis of Cannabinoids)

Visual Inspection - Foreign Material Testing (Internal SOP-24-Visual Inspection)

% Moisture (Loss on drying) (Internal SOP 59 - % Moisture)

Metals Preparation and Analysis: Arsenic, Cadmium, Lead and Mercury (SOP-17- ICP MS based on EPA 200.8)

Mycotoxins: Total Aflatoxin and Ochratoxin by ELISA - Internal SOP-4 Total Aflatoxin and Ochratoxin

Yeast and Mold (based on AOAC Method 997.02/2014.05), Total Coliform and E. coli (based on AOAC Method 991.14) E. Coli P/A (based on AOAC 991.14 Modified with enrichment before plating), Aerobic Plate Count (based on AOAC Method 990.12), Enterobacteriaceae (based on OMA 2003.01), Salmonella (based on AOAC 2014.01) SOP-3-Microbiological analysis by Petri Film.

Water Activity (SOP-53-Water Activity-based on ASTM D81918)

< or ND - Analyte result not detected above the method reporting limit

All sample results are reported on an "as received" basis.

Edibles are reported in mg/serving. The serving size is defined by the customer for Adult Use testing.

If the serving size is not defined by the customer (for R&D or Medical testing), the number reported is based on the weight of one unit of the product or as defined on the customer label.

The mg/serving reported are based on weights of the serving size taken at the laboratory. The mg/package results reported are based on information supplied by the customer.

Edible conversion calculation: mg/g in serving x weight of serving = mg per serving

Mg/package conversion: mg/serving x servings per package = mg/package

Laboratory uncertainty is calculated and updated on a regular basis.

The uncertainty calculated for edibles is applied to the Total THC results for Maine Adult use marijuana products. The uncertainty value currently in use is 10 mg per serving +/- 0.5 mg/serving based on uncertainty data calculated through August 2020.

The uncertainty calculated for Total THC in hemp is 0.30% +/- 0.05%. The uncertainty is based on data calculated through August 2020.

Samples are extracted and analyzed on the same day unless otherwise noted.

Cannabinoid and Terpene Analysis are based on laboratory developed methods. All other test methods are based on established EPA, USP or FDA methods.

Matrix matched quality control check samples for marijuana are available for microbiological analysis in a hemp-based QC. Other matrix matched quality control samples for most matrices may be available for hemp but do not currently exist in marijuana. Due to this unavailability, even ISO/IEC validated methods cannot be fully verified for the efficiency and accuracy of the marijuana extraction and analysis in any current Maine Testing facility.

QUALIFIER DEFINITION

NELSON ANALYTICAL LAB

120 York Street, Kennebunk, ME 04043
www.nelsonanalytical.com
(207)467-3478 phone

REPORT OF ANALYSIS
Laboratory ID: C20100432

NH ELAP Accreditation #NH2018
Maine State Certification # ME0015
Maine Radon Certification # ME17500

Qualifier Definition



Notes: mg/L=ppm; ug/L=ppb; ng/L=ppt, "<" denotes "less than". This report of analysis may not be modified in any way, or reproduced except in full, without written approval from Nelson Analytical, LLC. Results reported above relate only to samples as submitted, unless specifically noted otherwise. Nelson Analytical, LLC is currently accredited by the New Hampshire Environmental Lab Accreditation Program, ANAB, and the Maine Laboratory Accreditation Program. For a list of current accredited tests, please visit the websites listed below. Sampling performed by the lab is according to the lab document "Water Sampling Instructions". EPA standards list pH & Chlorine as field parameters which should be tested immediately upon sample collection. Samples tested for pH after submission are beyond the hold time. Samples will be analyzed as quickly as laboratory operations allow. Metals samples preserved and analyzed on the same day do not meet the method criteria. #-Sample(s) received at laboratory do not meet method specified temperature criteria.

Subcontract Laboratories: SUB1: Nelson Analytical Manchester (NH1005) ME-NH01005 SUB 2: (NH 2136) (ME-CT00007),SUB3: (NH2001) (ME00019), SUB 4: NH2073 SUB5: (NH2530) (ME FL00117), SUB7: EAI Analytical (NH 1007),SUB 8: ME00002 SUB9: (NH2516) (MA00100)

<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/>
<https://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml>
http://search.anab.org/public/organization_files/Tested-LabsNelson-Analytical-Cert-and-Scope-File-08-13-2019_1565710045.pdf